
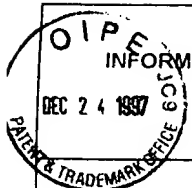
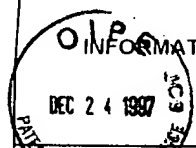


1-31-97

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					Applicant: Geoffrey B. Rhoads			
					Filed: 5/16/96		Group: 2317	
U.S. PATENT DOCUMENTS								
Init.*		Number	Date	Name	Class	Sub	Filed	
<i>GRB</i>		5,568,570	10/22/96	Rabbani	—	—	9/30/94	
		5,541,741	7/20/96	Suzuki	—	—	9/25/92	
		5,532,920	7/2/96	Hartrick et al.	—	—	12/28/94	
		5,530,759	1/25/96	Braudaway et al.	—	—	11/30/93	
		5,524,936	6/11/96	Kunt et al.	—	—	5/26/93	
		5,515,081	5/7/96	Vasilik	—	—	11/30/93	
		5,499,294	3/12/96	Friedman	—	—	5/24/95	
		5,488,664	1/30/96	Shamir	—	—	4/22/94	
		5,479,168	12/26/95	Johnson et al.	—	—		
		5,473,631	12/5/95	Moses	—	—		
		5,469,506	11/21/95	Berson	—	—		
		5,450,490	9/12/95	Jensen et al.	—	—		
		5,446,273	8/29/95	Leslie	—	—		
		5,432,870	7/11/95	Schwartz	—	—		
		5,428,607	6/27/95	Hiller et al.	—	—		
		5,422,995	6/6/95	Aoki et al.	—	—		
		5,422,963	6/6/95	Chen et al.	—	—		
		5,408,542	4/18/95	Callahan	—	—		
		5,404,377	4/4/95	Moses	—	—		
		5,398,283	3/14/95	Virga	—	—		
		5,396,559	3/7/95	McGrew	—	—		
		5,394,274	2/28/95	Kahn	—	—		
		5,379,345	1/3/95	Greenberg	—	—		
✓		5,351,302	9/27/94	Leighton et al.	—	—		
<i>GRB</i>		5,337,362	8/9/94	Gormish et al.	—	—		
EXAMINER: <i>[Signature]</i>				DATE: 2-17-98				
<p>*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.</p>								

 <p> OIPF INFORMATION DISCLOSURE STATEMENT DEC 24 1997 PATENT & TRADEMARK SERVICE 601 </p>				Docket: 4830-45053		Ser: 08/649,419	
				Applicant: Geoffrey B. Rhoads			
				Filed: 5/16/96		Group: 2317	
U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
<i>PRB</i>		5,325,167	6/28/94	Melen	—	—	
		5,319,735	6/7/94	Preuss et al.	—	—	
		5,319,724	6/7/94	Blonstein et al.	—	—	
		5,319,453	6/7/94	Copriviza	—	—	
		5,315,098	5/24/94	Tow	—	—	
		5,305,400	4/19/94	Butera	—	—	
		5,299,019	3/29/94	Pack et al.	—	—	
		5,295,203	3/15/94	Krause et al.	—	—	
		5,293,399	3/8/94	Hefti	—	—	
		5,280,537	1/18/94	Sugiyama et al.	—	—	
		5,267,334	11/30/93	Normille et al.	—	—	
		5,259,025	11/2/93	Monroe	—	—	
		5,257,199	10/26/93	Funada et al.	—	—	
		5,253,078	10/12/93	Balkanski et al.	—	—	
		5,245,329	9/14/93	Gokcebay	—	—	
		5,243,423	9/7/93	DeJean et al.	—	—	
		5,228,056	7/13/93	Schilling	—	—	
		5,213,337	5/25/93	Sherman	—	—	
		5,212,551	5/18/93	Conanan	—	—	
		5,200,822	4/6/93	Bronfin et al.	—	—	
		5,199,081	3/30/93	Saito et al.	—	—	
		5,185,736	2/9/93	Tyrrell et al.	—	—	
		5,181,786	1/26/93	Hujink	—	—	
		5,166,676	11/24/92	Milheiser	—	—	
		5,161,210	11/3/92	Druyvesteyn et al.	—	—	
<i>✓</i>		5,150,409	9/22/92	Elsner	—	—	
<i>PRB</i>		5,148,498	9/15/92	Resnikoff et al.	—	—	
EXAMINER: <i>[Signature]</i>				DATE: 2-17-98			
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U.S. PATENT DOCUMENTS

Init.*	Number	Date	Name	Class	Sub	Filed
<i>SR</i>	5,144,660	9/1/92	Rose	—	—	
	5,113,437	5/12/92	Best	—	—	
	5,095,196	3/10/92	Miyata	—	—	
	5,079,648	1/7/92	Maufe	—	—	
	5,077,795	12/31/91	Rourke et al.	—	—	
	5,073,899	12/17/91	Collier et al.	—	—	
	5,063,446	11/5/91	Gibson	—	—	
	5,036,513	7/30/91	Greenblatt	—	—	
	5,027,401	6/25/91	Soltesz	—	—	
	5,010,405	4/23/91	Schreiber et al.	—	—	
	4,996,530	7/26/91	Hilton	—	—	
	4,993,068	2/12/91	Piosenka	—	—	
	4,979,210	12/18/90	Nagata et al.	—	—	
	4,972,476	11/20/90	Nathans	—	—	
	4,972,471	11/20/90	Gross et al.	—	—	
	4,969,041	11/6/90	O'Grady et al.	—	—	
	4,967,273	10/30/90	Greenberg	—	—	
	4,965,827	10/23/90	McDonald	—	—	
	4,963,998	10/16/90	Maufe	—	—	
	4,944,036	7/24/90	Hyatt	—	—	
	4,943,976	7/24/90	Ishigaki	—	—	
	4,943,973	7/24/90	Werner	—	—	
	4,941,150	7/10/90	Iwasaki	—	—	
	4,939,615	7/3/90	Adelson	—	—	
	4,921,278	5/1/90	Shiang et al.	—	—	
	4,908,873	3/13/90	Philibert et al.	—	—	
<i>PK</i>	4,908,836	3/13/90	Rushforth et al.	—	—	

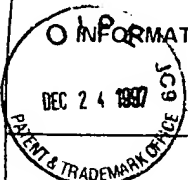


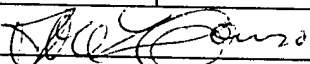
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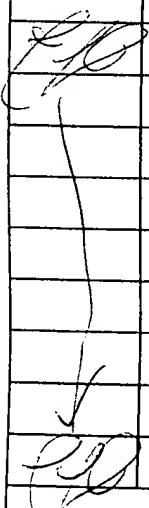

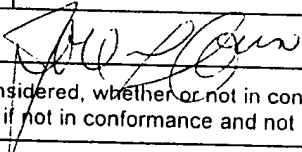
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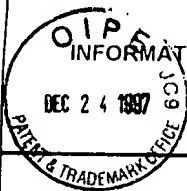
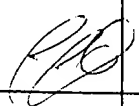
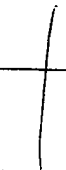

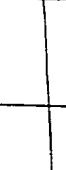


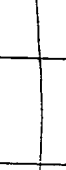
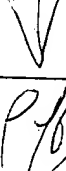
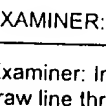

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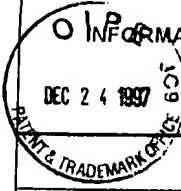
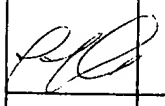
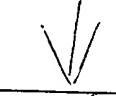

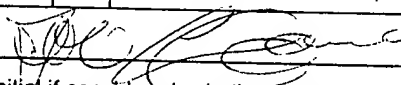
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Docket: 4830-45053		Ser: 08/649,419	
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U.S. PATENT DOCUMENTS								
Init.*		Number	Date	Name	Class	Sub	Filed	
<i>EP</i>		4,903,301	2/20/90	Kondo et al.	—	—		
		4,884,139	11/28/89	Pommier	—	—		
		4,879,747	11/7/89	Leighton et al.	—	—		
		4,876,617	10/24/89	Best et al.	—	—		
		4,874,936	10/17/89	Chandler et al.	—	—		
		4,866,771	9/12/89	Bain	—	—		
		4,864,618	9/5/89	Wright et al.	—	—		
		4,835,517	5/30/89	van der Gracht et al.	—	—		
		4,820,912	4/11/89	Samyn	—	—		
		4,811,408	3/7/89	Goldman	—	—		
		4,811,357	3/7/89	Betts et al.	—	—		
		4,807,031	2/21/89	Broughton et al.	—	—		
		4,805,020	2/14/89	Greenberg	—	—		
		4,776,013	10/4/88	Kafri et al.	—	—		
		4,775,901	10/4/88	Nakano	—	—		
		4,765,656	8/23/88	Becker et al.	—	—		
		4,750,173	6/7/88	Blüthgen	—	—		
		4,739,377	4/19/88	Allen	—	—		
		4,718,106	1/5/88	Weinblatt	—	—		
		4,712,103	12/8/87	Gotanda	—	—		
		4,703,476	10/27/87	Howard	—	—		
		4,682,794	7/28/87	Margolin	—	—		
		4,677,435	6/30/87	Cause D'Aggraves et al.	—	—		
		4,675,746	6/23/87	Tetrick et al.	—	—		
<i>EP</i>		4,672,605	6/9/87	Hustig et al.	—	—		
EXAMINER: <i>Dee L. Gano</i>				DATE: <i>2-19-98</i>				
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U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
		4,665,431	5/12/87	Cooper	—	—	
		4,663,518	5/5/87	Borror et al.	—	—	
		4,660,221	4/21/87	Dlugos	—	—	
		4,654,867	3/31/87	Labeledz et al.	—	—	
		4,637,051	1/13/87	Clark	—	—	
		4,595,950	6/17/86	Löfberg	—	—	
		4,590,366	5/20/86	Rothfjell	—	—	
		4,547,804	10/15/85	Greenberg	—	—	
		4,553,261	11/10/85	Froessi	—	—	
		4,532,508	7/30/85	Ruell	—	—	
		4,528,588	7/9/85	Löfberg	—	—	
		4/476/468	10/9/84	Goldman	—	—	
		4,425,642	1/10/84	Moses et al.	—	—	
		4,423,415	12/27/83	Goldman	—	—	
		4,395,600	7/26/83	Lundy et al.	—	—	
		4,389,671	6/21/83	Posner et al.	—	—	
		4,379,947	4/12/83	Warner	—	—	
		4,313,197	1/26/82	Maxemchuk	—	—	
		4,252,995	2/24/81	Schmidt et al.	—	—	
		4,238,849	12/9/80	Gassmann	—	—	
	4,231,113	10/28/80	Blasbalg	—	—		
	4,230,990	10/28/80	Lert, Jr. et al.	—	—		
	4,225,967	9/30/80	Miwa et al.	—	—		
		3,984,624	10/5/76	Waggener	—	—	
		3,971,917	7/27/76	Maddox et al.	—	—	
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U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
<i>FR</i>		3,922,074	11/25/75	Ikegami et al.	—	—	
		3,914,877	10/28/75	Hines	—	—	
		3,838,444	9/24/74	Loughlin et al.	—	—	
		3,809,806	5/7/74	Walker et al.	—	—	
		3,805,238	4/16/74	Rothfjell	—	—	
		3,703,628	11/21/72	Philipson, Jr.	—	—	
		3,655,162	5/23/72	Yamamoto et al.	—	—	
<i>FR</i>		3,569,619	3/9/71	Simjian	—	—	
FOREIGN PATENT DOCUMENTS							
		Number	Date	Country	Class	Sub	
<i>FR</i>		05/242217	9/21/93	Japan	—	—	
		4-248771	9/4/92	Japan	—	—	
		8-30759	2/2/96	Japan	—	—	
		2,204,984	11/23/88	U.K.	—	—	
		2,196,167	4/20/88	U.K.	—	—	
		2,063,018A	5/28/81	U.K.	—	—	
		2,067,871	7/30/81	U.K.	—	—	
		705 025 A2	4/3/96	EPC	—	—	
		650 146 A1	4/26/95	EPC	—	—	
		649 074 A1	4/19/95	EPC	—	—	
		629 972	12/21/94	EPC	—	—	
		605 208 A2	7/6/94	EPC	—	—	
		581 317	2/2/94	EPC	—	—	
		551 016 A1	2/2/94	EPC	—	—	
		493 091	7/1/92	EPC	—	—	
		441 702	8/14/91	EPC	—	—	
		411 232	2/6/91	EPC	—	—	
<i>FR</i>		372 601	6/13/90	EPC	—	—	
EXAMINER: <i>John E. Cooney</i>				DATE: <i>2-19-98</i>			
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FOREIGN PATENT DOCUMENTS							
		Number	Date	Country	Class	Sub	
		058 482	8/25/82	EPC			
		3806411	9/7/89	Germany			
		WO89/08915	9/21/89	PCT			
		WO95/10835	4/20/95	PCT (Japan)			
		WO95/20291	7/27/95	PCT			
		WO95/14289	5/26/95	PCT			
		WO96/27259	9/6/96	PCT			
		WO96/26494	8/29/96	PCT			
		WO93/25038	12/9/93	PCT			
OTHER DOCUMENTS							
		Komatsu et al., "A Proposal on Digital Watermark in Document Image Communication and Its Application to Realizing a Signature," <u>Electronics and Communications in Japan</u> , Part 1, Vol. 73, No. 5, 1990, pp. 22-33.					
		Schneier, "Digital Signatures, Cryptographic Algorithms Can Create Nonforgeable Signatures for Electronic Documents, Making Them Valid Legal Instruments" <u>BYTE</u> , November 1993, pp. 309-312.					
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		Machado, "Announcing Stego 1.0a2, The First Steganography Tool for the Macintosh," Internet reference, November 28, 1993, 3 pages.					
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		shaggy@phantom.com, "Hide and Seek v. 4.0," Internet reference, April 10, 1994, 3 pages.					
		Wise, "The History of Copyright, Photographers' Rights Span Three Centuries," <u>PHOTO>Electronic Imaging</u> , Vol. 37, No. 6, 1994.					
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OTHER DOCUMENTS					
        			Kassam, <u>Signal Detection in Non-Gaussian Noise</u> , Dowden & Culver, 1988, pp. 1-96.		
			Brassil et al., "Electronic Marking and Identification Techniques to Discourage Document Copying, <u>Proceedings of INFOCOM '94 Conference on Computer, IEEE Commun. Soc Conference</u> , June 12-16, 1994, pp. 1278-1287.		
			Jain, "Image Coding Via a Nearest Neighbors Image Model," <u>IEEE Transactions on Communications</u> , Vol. COM-23, No. 3, March 1975, pp. 318-331.		
			Arthur, "Digital Fingerprints Protect Artwork," <u>New Scientist</u> , November 12, 1994, p. 24.		
			Matthews, "When Seeing is Not Believing," <u>New Scientist</u> , October 16, 1993, pp. 13-15.		
			Bender et al., "Techniques for Data Hiding," Massachusetts Institute of Technology, Media Laboratory, January 1995, 10 pages.		
			Walton, "Image Authentication for a Slippery New Age," <u>Dr. Dobb's Journal</u> , April 1995, pp. 18-26, 82-87.		
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			"Foiling Card Forgers With Magnetic 'Noise,'" <u>Wall Street Journal</u> , February 8, 1994.		
			Fitzgerald, "Invisible Digital Copyright ID," <u>Editor & Publisher</u> , June 25, 1994, p. 62.		
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EXAMINER:				DATE: 12.19.92	
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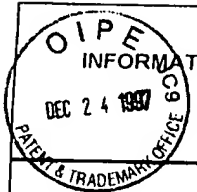




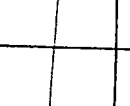
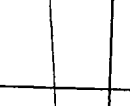
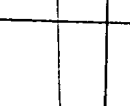
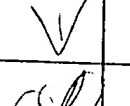
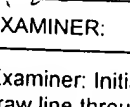
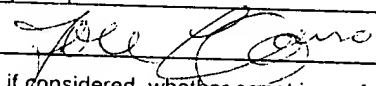
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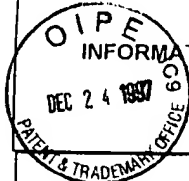
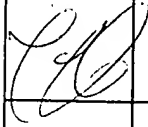

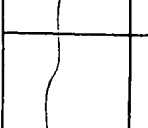
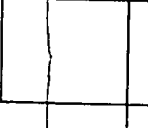
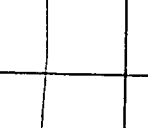
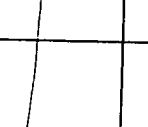

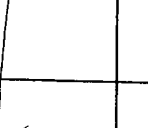
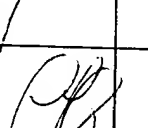
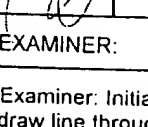


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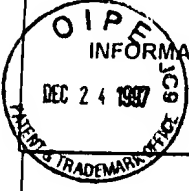
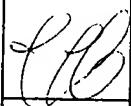



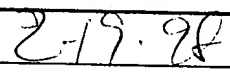
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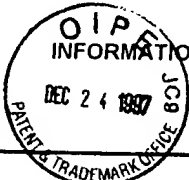
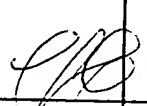


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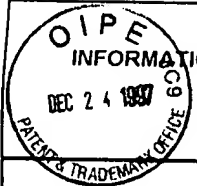









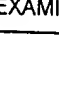

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